### 2.2. Normal Curves - Activity

The purpose of this activity is to connect two ways for how we can find the proportion of a specific interval under a density curve: using geometry to estimate an area and using a graphing calculator to get an accurate proportion.

We will see how close our estimates were to the actual proportions. Let's start with extra-large eggs.

Using the blank normal curves on the following pages,

Egg Weight Intervals
Peewee 29-36
Small 36-43
Medium 43-50
Large 50-57
Extra Large 57-64
Super XL 64-71
Jumbo 71-78
Super Jumbo 78-85

> \# of boxes in the interval $\#$ of boxes under the entire density curve
2. Calculate the proportion using a graphing calculator.
3. Compare the two answers. How close is your estimate to the actual proportion?
2.2. Figure 1: The Normal Density Curve for the Weight of Eggs at Pete and Gerry's Farm.

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